OnFlex™ AF 7215-80 B

Thermoplastic Elastomer

Key Characteristics

Product Description

OnFlex™ AF 7215-80 B is an easy processing TPE designed for a variety of automotive applications.

- Excellent surface finish
- Good adhesion to polypropylene
- Excellent performance in static mechanical parts such as seals & grips, panel fasteners, plugs, clips and cable clamps.
- Improved UV stability

General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific	• Europe	• North America
Features	• Good Processability		
Uses	• Automotive Applications • Fasteners	• Gaskets • Overmolding	• Plugs
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2]	0.990 g/cm³	0.990 g/cm³	ISO 1133
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [3, 2] (Break)	1890 psi	13.0 MPa	ISO 37
Tensile Elongation [3, 2] (Break)	850 %	850 %	ISO 37
Tear Strength [2]	246 lbf/in	43.0 kN/m	ISO 34-1
Compression Set [2]			ISO 815
73°F (23°C), 72 hr	29 %	29 %	
158°F (70°C), 22 hr	49 %	49 %	
212°F (100°C), 22 hr	72 %	72 %	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Shore Hardness (Shore A, 10 sec)	80	80	ISO 48-4
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Weather Resistance [4]	expected to pass PV 3929	expected to pass PV 3929	Internal Method

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Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Suggested Max Regrind	20 %	20 %
Rear Temperature	320 to 370 °F	160 to 188 °C
Middle Temperature	350 to 380 °F	177 to 193 °C
Front Temperature	370 to 410 °F	188 to 210 °C
Nozzle Temperature	370 to 420 °F	188 to 216 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Fast	Fast
Back Pressure	0.00 to 120 psi	0.00 to 0.827 MPa
Screw Speed	40 to 100 rpm	40 to 100 rpm

Notes

[1] Typical values are not to be construed as specifications.

[2] Europe

[3] 7.9 in/min (200 mm/min)

[4] OnFlex AF 7215-60 B (60Sh A; black) as part the of the AF-range has been tested according waethering test PV 3929 (Kalahari-Test). It has successfully passed the test time of 1500h.

CONTACT INFORMATION

North America
Avon Lake, United States
33587 Walker Road
Avon Lake, OH, United States , 44012
+1 440 930 1000
+1 844 4AVIENT

South America
Sao Paulo, Brazil
Av. Francisco Nakasato, 1700
13295-000 Itupeva
Sao Paulo, Brazil
+55 11 4593 9200

Asia
Shanghai, China
2F, Block C
200 Jinsu Road
Pudong, 201206
Shanghai, China
+86 (0) 21 6028 4888

Europe
Pommerloch, Luxembourg
19 Route de Bastogne
Pommerloch, Luxembourg , L-9638
+352 269 050 35

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